

FIG. 1

```

1   gcctgttccc tctgctctgg gtctccgcgg gcgccccgcc cggcagcctc
51  acctgcgcgg cactgacccc gcaccgcccc tgggcacctt gaaggcggat
101 cccgcgcgcc cccgctcctg caggctgttt ttcttcaa atagaacatg
151 gtgaaactga ttcacacatt agctgatcat ggtgacgatg tcaactgctg
201 tgccttctcc ttttccctct tggctacttg ctccctggac aaaacaattc
251 gcctgtactc gttacgtgac ttactgaac tgccacattc tccattgaag
301 tttcatacct atgctgtcca ctgctgctgt ttctccctt caggacatat
351 tttggcatcg tgttcaacag atgggtaccac tgtcctatgg aatactgaaa
401 atggacagat gctggcagtg atggaacagc ctagtggcag ccctgtgagg
451 gtttgccagt tttccccaga ctccacgtgt ttggcatcag gggcagctga
501 tggaaactgtg gttttgtgga atgcacagtc atacaaatta tatagatgtg
551 gtagtggttaa agatggctcc ttggcggcat gtgcattttc tccaatgga
601 agcttctttg tcaactggctc ctcatgtggt gatttaacag tgtgggatga
651 taaaatgagg tgtctgcata gtgaaaaagc acatgatctt ggaattacct
701 gctgcgattt ttcttcacag ccagtttctg atggagaaca aggtcttcag
751 ttttttcgac tggcatcatg tggtcaggat tgccaagtca aaatttggat
801 tgtttctttt acccatatct taggttttga attaaaatat aaaagtacac
851 tgagtgggca ctgtgctcct gttctggctt gtgctttttc ccatgatggg
901 cagatgctag tctcagggtc agtggataag tctgtcatag tatatgatac
951 taatactgag aatatacttc acacattgac tcagcacacc aggtatgtca
1001 caacttgctg ttttgcacct aatacccttt tacttgctac tggttcaatg
1051 gacaaaacag tgaacatctg gcaatttgac ctggaacac tttgccaaagc
1101 aaggcgcaca gaacatcagc tgaagcaatt taccgaagat tggtcagagg
1151 aggatgtctc aacatggctt tgtgcacaag atttaaaaga tcttgttggt
1201 attttcaaga tgaataacat tgatggaaaa gaactgttga atcttacaaa
1251 agaaagtctg gctgatgatt tgaaaattga atctctagga ctgcgtagta
1301 aagtgctgag gaaaattgaa gagctcagga ccaaggttaa atccctttct
1351 tcaggaattc ctgatgaatt tatatgtcca ataactagag aacttatgaa
1401 agatccgggc atcgcatcag atggctattc atatgaaaag gaagcaatgg
1451 aaaattggat cagcaaaaag aaacgtacaa gtcccatgac aaatcttggt
1501 cttccttcag cggtaacttac accaaatagg actctgaaaa tggccatcaa
1551 tagatggctg gagacacacc aaaagtaaaa ttggtgatat tgtattattt
1601 atattttcag tgatctcatt tgaatgattt ataggtaaat actaatcaga
1651 cattattaaa agcaaaacag gaaaaaggta aacttcttaa atttagttac
1701 ctataaaaaa tgtcaatttt cattctttta aaaacacatg gacttactat
1751 aaaagccttt ttgtactagt gaaaagaatc ttcagctata tagaaataaa
1801 gttatacttt aaaaaaaa

```

FIG. 2

1 MVKLIHTLAD HGDDVNCCAF SFSLLATCSL DKTIRLYSLR
41 DFTELPHSPL KFHTYAVHCC CFSPSGHILA SCSTDGTTVL
81 WNTENGQMLA VMEQPSGSPV RVCQFSPDST CLASGAADGT
121 VVLWNAQSYK LYRCGSVKDG SLAACAFSPN GSFFVTGSSC
161 GDLTVWDDKM RCLHSEKAHD LGITCCDFSS QPVSDGEQGL
201 QFFRLASCGQ DCQVKIIVS FTHILGFELK YKSTLSGHCA
241 PVLACAFSHD GQMLVSGSVD KSVIVYDTNT ENILHTLTQH
281 TRYVTTCAFA PNTLLLATGS MDKTVNIWQF DLETLCQARR
321 TEHQLKQFTE DWSEEDVSTW LCAQDLKDLV GIFKMNNIDG
361 KELLNLTKE LADDLKIESL GLRSKVLRKI EELRTKVKSL
401 SSGIPDEFIC PITRELMKDP VIASDGYSYE KEAMENWISK
441 KKRTSPMTNL VLPSAVLTPN RTLKMAINRW LETHQK

FIG. 3

atgggtgaaactgattcacacattagctgatcatggtgacgatgtcaactgctgtgccttc
M V K L I H T L A D H G D D V N C C A F
tccttttccctcttggctacttgctccttggacaaaacaattcgctgtactcgttacgt
S F S L L A T C S L D K T I R L Y S L R
gactttactgaactgccacattctccattgaagtttcatacctatgctgtccactgctgc
D F T E L P H S P L K F H T Y A V H C C
tgtttctccccttcaggacatatatttggcatcgtgttcaacagatggtaccactgtccta
C F S P S G H I L A S C S T D G T T V L
tggaatactgaaaatggacagatgctggcagtgatggaacagcctagtggcagccctgtg
W N T E N G Q M L A V M E Q P S G S P V
agggtttgccagttttcccagactccacgtgtttggcatcaggggcagctgatggaact
R V C Q F S P D S T C L A S G A A D G T
gtggttttgtggaatgcacagtcatacaaattatatagatgtggtagtggttaaagatggc
V V L W N A Q S Y K L Y R C G S V K D G
tccttggcggcatgtgcattttctcctaattggaagcttctttgtcactggctcctcatgt
S L A A C A F S P N G S F F V T G S S C
ggtgatttaacagtggtggatgataaaatgaggtgtctgcatagtgaaaaagcacatgat
G D L T V W D D K M R C L H S E K A H D
cttgggaattacctgctgcatgtttttcttcacagccagtttctgatggagaacaaggtctt
L G I T C C D F S S Q P V S D G E Q G L
cagttttttcgcactggcatcatgtggtcaggattgccaaagtcaaaatttggtattgtttct
Q F F R L A S C G Q D C Q V K I W I V S
tttaccatatacttaggttttgaattaaaatataaaagtacactgagtgggcactgtgct
F T H I L G F E L K Y K S T L S G H C A
cctgttctggttgtgtgttttcccatgtgggcagatgctagtctcaggggtcagtggtat
P V L A C A F S H D G Q M L V S G S V D
aagtctgtcatagtatatgatactaataactgagaatatacttcacacattgactcagcac
K S V I V Y D T N T E N I L H T L T Q H
accaggatgtgcacaacttgtgctttttgcacctaataacccttttacttgctactggttca
T R Y V T T C A F A P N T L L L A T G S
atggacaaaacagtgaaacatctggcaatttgacctggaaacactttgccaaagcaaggcgc
M D K T V N I W Q F D L E T L C Q A R R
acagaacatcagctgaagcaatttaccgaagattgggtcagaggaggatgtctcaacatgg
T E H Q L K Q F T E D W S E E D V S T W
ctttgtgcacaagattttaaagatcttgttgggtattttcaagatgaataacattgatgga
L C A Q D L K D L V G I F K M N N I D G
aaagaactgttgaaatcttacaagaagaagtctggctgatgatttgaaaattgaatctcta
K E L L N L T K E S L A D D L K I E S L
ggactgcgtagtaaaagtgtgagggaaaattgaagagctcaggaccaaggttaaattccctt
G L R S K V L R K I E E L R T K V K S L
tcttcaggaattcctgatgaatttatatgtccaataactagagaacttatgaaagatccg
S S G I P D E F I C P I T R E L M K D P
gtcatcgcacatcagatggctattcatatgaaaaggaagcaatggaaaattggatcagcaaa
V I A S D G Y S Y E K E A M E N W I S K
aagaaacgtacaagtcccatgacaaatcttgttcttccttcagcgggtacttacaccaaat
K K R T S P M T N L V L P S A V L T P N
aggactctgaaaatggccatcaatagatggctggagacacacaaaagtaa
R T L K M A I N R W L E T H Q K

FIG. 4A

gaattcggcctttcacctgcgcggcacgtgacccgcaccgcccgtgggcaccttg
aaggcggatcccgcgcgccccgcctcctgcaggctgtttttcttcaaataaaga
acatggtgaaactgattcacacattagctgatcatggtgacgatgtcaactgct
gtgccttctccttttccctcttggtacttgctccttggaacaaaacaattcgcc
tgtactcgttacgtgactttactgaactgccacattctccattgaagtttcata
cctatgctgtccactgctgctgtttctcccccttcaggacataatgttgcatcgt
gttcaacagatggtaccactgtcctatggaatactgaaaatggacagatgctgg
cagtgatggaacagcctagtggcagccctgtgaggggttgccagttttccccag
actccacgtgtttggcatcaggggcagctgatggaactgtgggttttgtggaatg
cacagtcatacaaatatagatgtggtagtggttaagatggctccttggcgg
catgtgcattttctcctaataatggaagcttctttgtcactggctcctcatgtggg
atthaacagtggtgggatgataaaatgaggtgtctgcatagtgaaaaagcacatg
atcttggaattacctgctgcgatttttcttcacagccagtttctgatggagaac
aaggtcttcagttttttcgactggcatcatgtgggtcaggattgccaagtcaaaa
tttggaattgtttcttttaccatatacttaggttttgaattaaaatataaaagta
cactgagtgggcactgtgctcctgttctggcttgtgctttttcccgtgatgggc
agatgctagtctcagggtcagtggataagtctgtcatagtatatgataactaata
ctgagaatataacttcacacattgactcagcacaccaggtatgtcacaacttgtg
cttttgacctaataacccttttacttgctactgggttcaatggacaaaacagtga
acatctggcaatttgacctggaaacactttgccaagcaaggcgcacagaacatc
agctgaagcaatttaccgaagattgggtcagaggaggatgtctcaacatggcttt
gtgcacaagatttaaaagatcttggttggtattttcaagatgaataacattgatg
gaaaagaactgttgaatcttacaaaagaaagtctggctgatgatttgaaaattg
aatctctaggactgcgtagtaaaagtgtgaggaaaattgaagagctcaggacca
aggttaaatccctttcttcaggaattcctgatgaatttatatgtccaataacta
gagaacttatgaaagatccggtcatcgcatcagatggctattcatatgaaaagg
aagcaatggaaaattggatcagcaaaaagaaacgtacaagtcccatgacaaatc
ttgttcttcccttcagcgggtacttacaccaaataaggactctgaaaatggccatca
atagatggctggagacacaccaaagtaaaaagccgaattc
(1532 bp)

FIG. 4B

IRLSPARHVTRTARGHLEGGSRAPPLLQAVFLQIKNMVKLIHTLADHGDDVNCCAFS
FSLLATCSLDKTIRLYSLRDFTELPHSPLKFHTYAVHCCCFSPSGHILASCSTDGTT
VLWNTENGQMLAVMEQPSGSPVRVCQFSPDSTCLASGAADGTVVLWNAQSYKLYRCG
SVKDGSLAACAFSPNGSFFVTGSSCGDLTVWDDKMRCLHSEKAHDLGITCCDFSSQP
VSDGEQGLQFFRLASCGQDCQVKIWIIVSFTHILGFELKYKSTLSGHCAPVLACAFSR
DGQMLVSGSVDKSVIVYDTNTENILHTLTQHTRYVTTCAFAPNTLLLATGSMDKTVN
IWQFDLETLCQARRTEHQLKQFTEDWSEEDVSTWLCAQDLKDLVGIFKMNNIDGKEL
LNLTKESLADDLKIESLGLRSKVLRKIEELRTKVKSLSGGIPDEFICPITRELMKDP
VIASDGYSYEKEAMENWISKKKRTSPMTNLVLPSAVLTPNRTLKMAINRWLETHQK.

seq. 1120

FIG. 4C

1 acactgagtg ggcactgtgc tcctgttctg gcttgtgctt tttcccatga
51 tgggcagatg ctagtctcag ggtcagtgga taagtctgtc atagtatatg
101 atactaatac tgagaatata cttcacacat tgactcagca caccaggtat
151 gtcacaactt gtgcttttgc acctaatacc cttttacttg ctactggttc
201 aatggacaaa acagtgaaca tctggcaatt tgacctggaa acactttgcc
251 aagcaaggcg cacagaacat cagctgaagc aatttaccga agattgggtca
301 gaggaggatg tctcaacatg gctttgtgca caagatttaa aagatcttgt
351 tggatattttc aagatgaata acattgatgg aaaagaactg ttgaatctta
401 caaaagaaag tctggctgat gatttgaaaa ttgaatctct aggactgcgt
451 agtaaagtgc tgaggaaaat tgaagagctc aggaccaagg ttaaattcct
501 ttcttcagga attcctgatg aatttatatg tccaataact agagaactta
551 tgaaagatcc ggtcatcgca tcagatggct attcatatga aaaggaagca
601 atggaaaatt ggatcagcaa aaagaaacgt

FIG. 5

ttactttgtgtgaggaacatggtgaggttgattcacacgctggctgatcacggggatgacgt
cagctgctgcgccttctcggtgccctcctggccacctgctccttggacaagaccatccgtc
tgtactccctaagtgactttgttgaactgccgtactccccgctgaagttccacacctatgct
gtccactgctgctgtttctcacccctcaggacacgttttagcatcgtgctcgacagacgggac
cacggtgctgtggagctcgacacagcggacacaccctgaccgtgttggagcagccgggtggca
gccctgtgcgcgtctgttgccttttccccagactctgcctacctagcgtcaggggctgccgat
ggatccattgctttgtggaatgcacagacatacaaaactatataggtgtggtagtgtcaagga
tagctcattggtggcctgtgcgttttctcccgatggaggcctcttgtcactggctcctcgg
gcggggacttgacagtgtgggatgacagaatgaggtgtctacacagcgcgagaaggcgacgat
ctcgggatcacctgctgcagcttttccctcacagcctctctctggcggagaaggcctccagtc
ttaccagttggcgtcatgtggtcaagactgtgaaatcaaactctgggctgttactattacc
gtgtcttaggcctttgaattaaaatataaaaagcacactaagtgggactgcgcccctgttctg
gcctgtgctttttcacatgatggaaagatgcttgcctcggggtcagtggaataaatctgtcat
catacatggtatcgccctcagagtgtgctacacacgctgactcagcataaccaggtatgtta
cgacttgtgcgtttgcacccaacactctcttacttgctactgggttcaatggacaagacagt
aacatttggcagtttgacctggaacaccttgccaagcaggaagcatgaacgacccgctgaa
acatttctactgaagaatggtcagaggaggatgtctccgtgtggcttcgtgctcaaggcttgg
aagacctcgtcggtattttcagggcacaacacatcgatgggaaagaactattgcatctcaca
aaggaaagtctggctggtgatttgaaaatcgaatctctagggtgcgcagcaaagtctgag
gagtattgaagagctcagggccaagatggattccctctcttccggaatccctgacgagttca
tctgcccataaaccagagaactcatgaaggaccccgctcatcgcatcagatggctactcctac
gagagagaagcaatggaaagctggatccacaagaagaagcgtacgagccccatgacaaattt
ggctctcccttactggtactgaccccaaacaggacactgaagatggccatcaaccgatggc
tgagacgcacgagaagtgaacgcgttcacaggcatcggatccactttcagtgatgccctgc
aatgattcaaaatgctaagcagccatcacgaaagcaaaataaaaaggaaaagacaaatgttc
aattcagttacttttaaaaactgtaaattatgagcagggcagtggtggtgcccacctttaat
cccagcactcaggaggcagagacaggtggatctccaggatcaggagtccaggacagcccag
tttatagggcaagtctcaggacggccaaggtacacagagaaaccctgtctcaaaaaaccca
aaacccaaaaaaaaaaaaaaaaaagtcaattatcttttaaaacacagatttatatatctatt
gtcatttgctatcttctgtaaaggtgaaaatatttttttttttgcaataatgagaaactatgta
gaaataaaaacttcactatgacttttaaaaaaaaaaaaaaaaaa

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FIG. 6

MVRLIHTLADHGDDVSCCAFS AALLATCSLDKTIRLYSLSDFVELPYSPLKFHT
YAVHCCCFSPSGHVLASCSTDGTTVLWSSHS GHTLTVLEQPGGSPVRVCCF
SPDSAYLASGAADGSIALWNAQTYKLYRCGSVKDSSLVACAFSPDGGLFVTG
SSGGDLTVWDDRMRLCHSEKAHDLGITCCSFSSQPLSGGEG LQSYQLASCG
QDCEIKLWAVTITRVLGFELKYKSTLSGHCAPVLACAFSHDGKMLASGSVDKS
VIHIGIPQSVLHTLTQHTRYVTTCAFAPNTLLLATGSMDKTVNIWQFDLETPC
QAGSMNDPLKHFTEEWSEEDVSVWLRAQGLEDLVGIFRANNIDGKELLHLTK
ESLAGDLKIESLGLRSKVLRSIEELRAKMDSLSSGIPDEFICPITRELMKDPVIA
SDGYSYEREAMESWIHKKKRTSPMTNLALPSLVLT PNRTLKMAINRWLETHEK

FIG. 7A

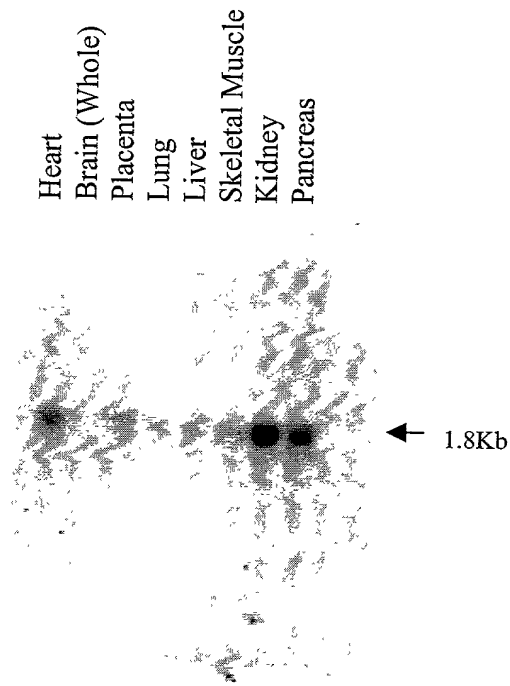


FIG. 7B

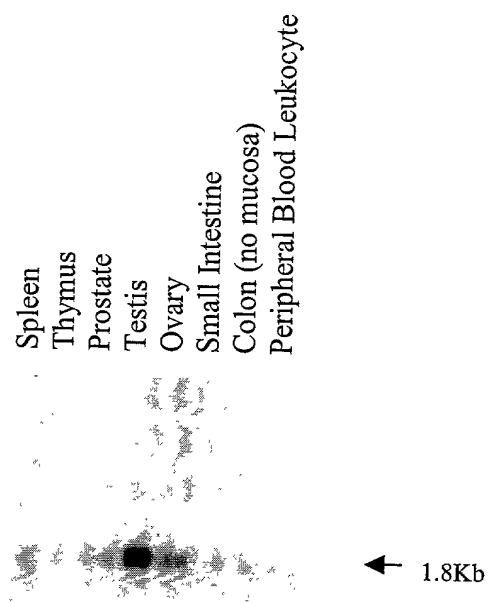
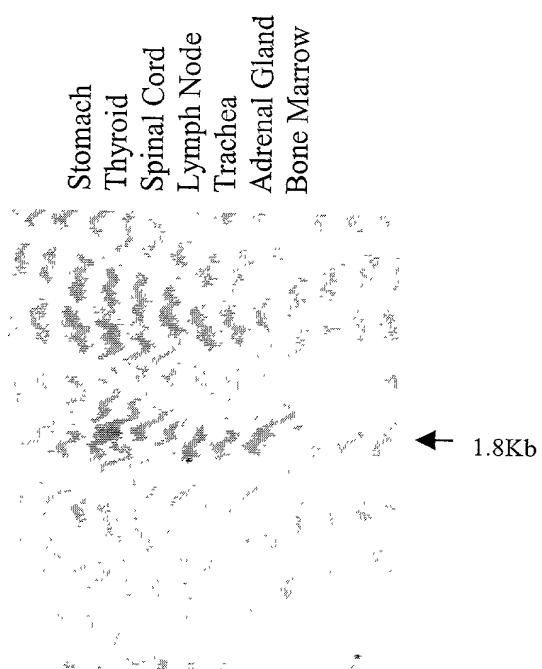


FIG. 7C



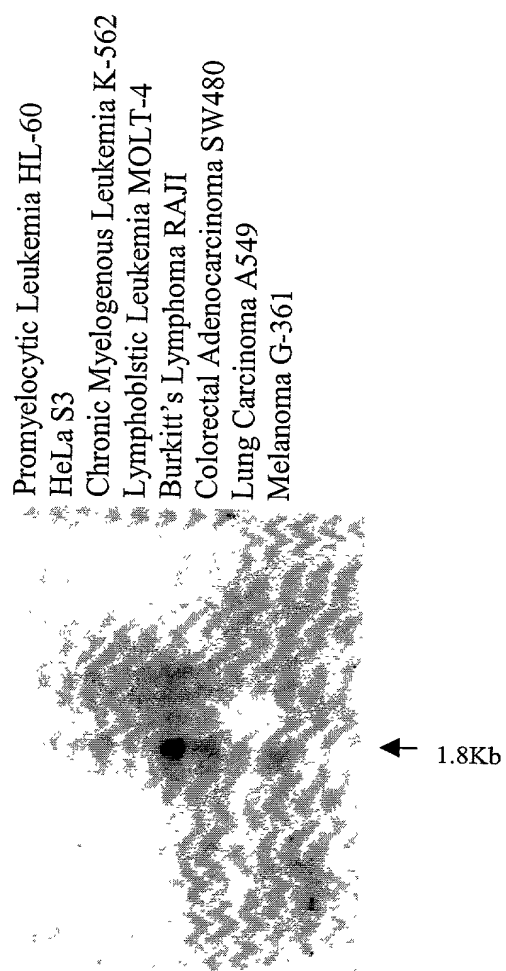


FIG. 7D

FIG. 8

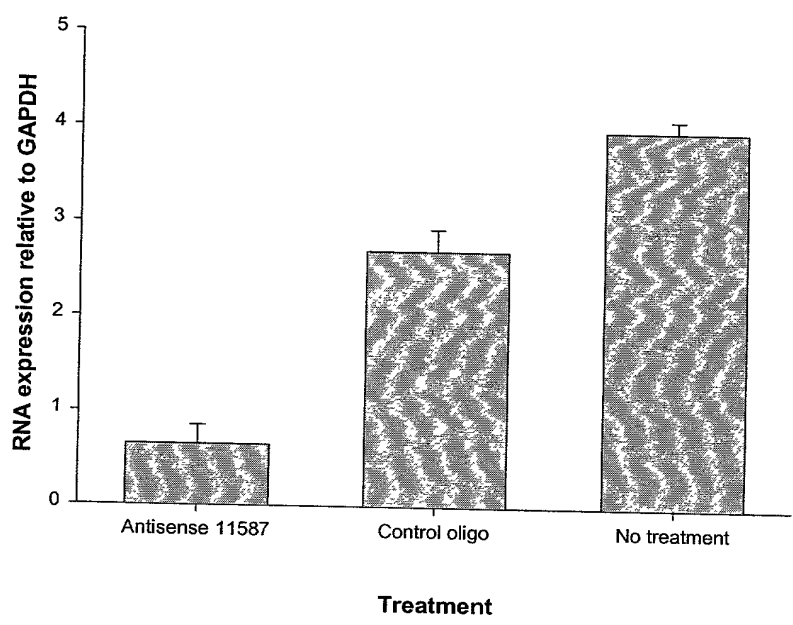


FIG. 9

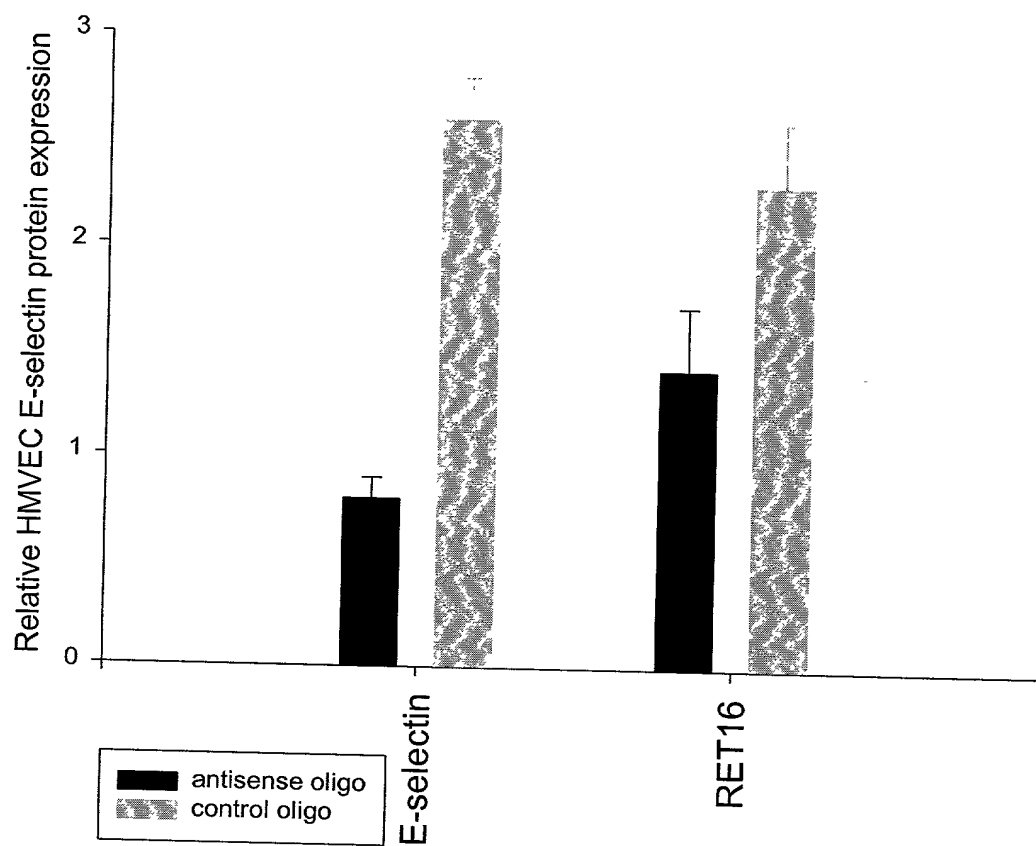


FIG. 10A

1MVKLIHTLADHGDDVNCCAFS..FSLLATCSLDKTIRLYSLRDFT 43
 || || | ||| .|. | |||::: |
 951 IWDAASGTCTQTLEGHGSSVLSVAFSPDGQQRVASGSGDKTIKIWDTASGT 1000
 44 ELPHSPLKFHTYAVHCCCFSPSGHILASCSTDGTTVLWNTENGQMLAVME 93
 |. | .| ||| | .|| | | :|. | .| :|
 1001 ..CTQTLEGHGGSVWSVAFSPDGQQRVASGSDDKTIKIWDTASGTCTQTLE 1048
 94 QPSGSPVRVCQFSPDSTCLASGAADGTVVLWNAQSYKLYRCGSVKDGS LA 143
 | |. | |||| .|||. | |: :|. | | . |.
 1049 .GHGGWVQSVVFS PDGQQRVASGSDDHTIKIWDASGTCTQTLEGHGDSVW 1097
 144 ACAFSPNGSFFVTGSSCGDLTVWDDKM.RCLHSEKAHDLGITCCDFSSQP 192
 . |||||. | .|| | : :|| | . . | : ||
 1098 SVAFSPDGQQRVASGSIDGTIKIWDAAASGTCTQTLEGHGGWVHVSVAFS... 1144
 193 VSDGEQGLQFFRLASCGQDCQVKIIVSFTHILGFELKYKSTLSGHCAPV 242
 ||: .|. || | :||| . || || |
 1145 .PDGQ.....RVASGSIDGTIKIWDAA.....SGTCTQTLEGHGGWV 1180
 243 LACAFSHDQMLVSGSVDKSVIVYDTNTENILHTLTQHTRYVTTCAFAPN 292
 . ||| ||| . ||| |||. : :|| | || | :| . |||. |
 1181 QSVAFSPDGQQRVASGSDDKTIKIWDTASGTCTQTLEGHGGWVQSVAFSPD 1230
 293 TLLLATGSMCKTVNIWQFDLETLCQARRTEHQLKQFTEDWSEEDVSTWLC 342
 .|. || | |: || | | . |: . :. | :
 1231 GQRVASGSDDNTIKIWDTASGTCTQTLNVGSTATCLSFDYTNAYINTNIG 1280
 343 AQDLKDLVGIFKMNNIDGKELLNLTKESSLADDLKIESLGLRSKVLRKIEE 392
 : . :| : . | | : . || |
 1281 RIQIATAT.MESLNQLSSPVCYSY...GLGQDHRWITCN.NQNVLWLPPE 1325
 393 LRTKVKSLSSG..IPDEFICPITRELMKDPVIASDGYSYEKEAMENWISK 440
 | .: : : | | |
 1326 YHTSAFTMQGRKIVLGSYSGRIIIFLFSRDV..... 1356

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FIG. 10B

```

1 .MVKLIHTLADHGDDVNCCAFS..FSLLATCSLDKTIRLYSLRDFTELP 47
   ::: | | : ||| |||| | || | .: . || |
451 NEPRILTT..DR..EAVAVAFSPGGSLLAGSGDKLIHVWDVASGDEL.H 495

48 SPLKFHTYAVHCCCFSPSGHILASCSTDGTTVLWNTENGQMLAVMEQPSG 97
   . |. || | ||| | : ||| | | ||. : || | .
496 T.LEGHTDWRVAVAFSPDGALLASGSDDATVRLWDVAAAEERAVFEGHTH 544

98 SPVRVCQFSPDSTCLASGAADGTVVVLWNAQSYKLYRCGSVKDGS LAACAF 147
   . : |||| . .|||. ||| ||| . : . | ||
545 YVLDIA.FSPDGSMVASGSRDGTARLWNVATGTEHAVLKGHTDYVYAVAF 593

148 SPNGSFFVTGSSCGDLTVWD...DKMRCLHSEKAHDLGITCCDFSSQPVS 194
   ||.|| .|| | : .|| | | . | . : ||
594 SPDGSMVASGSRDGTIRLWDVATGKERDVLQAPAEN..VVSLAFS....P 637

195 DGEQGLQFFRLASCGQDCQVKIIVSFTHILGFELKYKSTLSGHCAPVLA 244
   || . | | | : | | . | | | | |
638 DGSMVLH.....GSDSTVHLWDVASGEAL.....HTFEGHTDWVRA 673

245 CAFSHDGMVLVSGSVDKSVIVYDTNTENILHTLTQHTRYVTTCAFAPNTL 294
   ||| || : | || | :.: .: | : || | | . || |
674 VAFSPDGALLASGSDDRTIRLWDVAAQEEHTTLEGHTEPVHSVAFHPEGT 723

295 LLATGSMDKTVNIWQFDLETLCQARRTEHQLKQFTEDWSEEDVSTWLCAQ 344
   ||. | | | : || |
724 TLASASEDGTIRIWPIATE..... 742

```

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BOOKS

```

1 MVKLIHTLADHGDDVNCCAFSFSLLLATCSLDKTIIRLYSLRDFTELPHSPL 50
| | : | | | | | | | | . | | | | | . | | | | | | | | | | | | | | : | | |
1 MVRLIHTLADHGGDDVSCCAFSAAALLATCSLDKTIIRLYSLSDFVELPYSPL 50
.
51 KFHTYAVHCCCSPSGHILASCSTDGTTVLWNTENGQMLAVMEQPSGSPV 100
| | | | | | | | | | : | | | | | | | | | | . . | | : | | | | |
51 KFHTYAVHCCCSPSGHVLAASCSTDGTTVLWSSSHSGHTLTVLLEQPGGSPV 100
.
101 RVCQFSPDSTCLASGAADGTVVLWNAQSYKLYRCGSVKDGSLAACAFSPN 150
| | | | | | | | | | : | | | | . | | | | | | | | | | | | | | .
101 RVCCFSPDSAYLASGAADGSIALWNAQTYKLYRCGSVKDSSLVACAFSPD 150
.
151 GSFFVTGSSCGDLTVWDDKMRLHSEKAHDLGITCCDFSSQPVSDEGOGL 200
| | | | | | | | | | : | | | | | | | | | | | | | | . | | | |
151 GGLFVTGSSGGDLTVWDDMRCLHSEKAHDLGITCCSFSSQPLSGGE.GL 199
.
201 QFFRLASCGQDCQVKIWIIVSFTHILGFELKYKSTLSGHCAPVLACAFSHD 250
| . : | | | | | | | : : | | . | : | | | | | | | | | | | | | |
200 QSYQLASCGQDCEIKLWAVTITRVLGFELKYKSTLSGHCAPVLACAFSHD 249
.
251 GQMLVSGSVDKSVIVYDTNTENILHTLTQHTRYVTTCAFAPNTLLLATGS 300
| . | | | | | | | | : : : : | | | | | | | | | | | | | |
250 GKMLASGSVDKSVIIHGIGIPQSVLHTLTQHTRYVTTCAFAPNTLLLATGS 299
.
301 MDKTVNIWQFDLETLCQARRTEHQLKQFTEDWSEEDVSTWLCAQDLKDLV 350
| | | | | | | | | | | | | | | | | | : | | | | | | | | | . | | |
300 MDKTVNIWQFDLETPCQAGSMNDPLKHFTEEWSEEDVSVWLRAQGLEDLV 349
.
351 GIFKMNNIDGKELLNLTKESLADDLKIESLGLRSKVLRKIEELRTKVKS L 400
| | : | | | | | | | . | | | | | | | | | | | | | | | | . | |
350 GIFRANNIDGKELLHLTKESLAGDLKIESLGLRSKVLR S IEELRAKMDSL 399
.
401 SSGIPDEFICPITRELMKDPVIASDGYSYEKEAMENWISKKKRTSPMTNL 450
| | | | | | | | | | | | | | | | | | : | | | . | | | | | | | |
400 SSGIPDEFICPITRELMKDPVIASDGYSYEREAMESWIHKKKRTSPMTNL 449
.
451 VLPSAVLTPNRTLKMAINRWLETHQK 476
| | | | | | | | | | : |
450 ALPSLVLTPNRTLKMAINRWLETHEK 475

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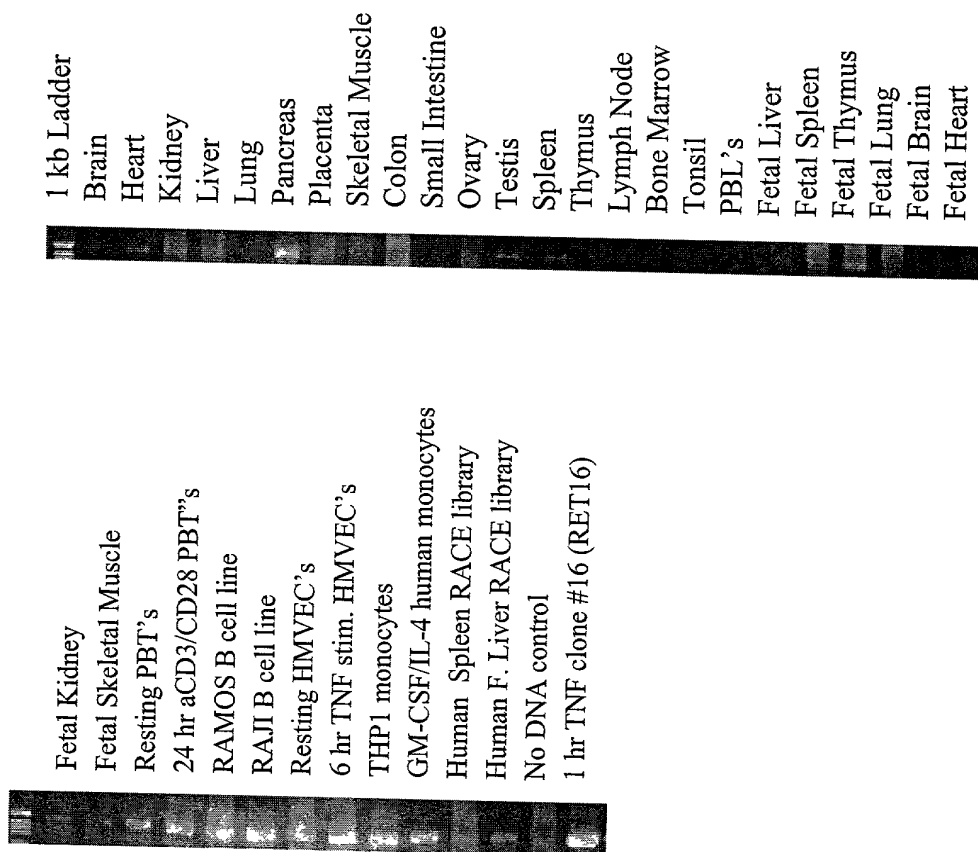
FIG. 10D

401 SSGIPDEFICPITRELMKDPVIASDGYSYEKEAMENWISKKKRTSPMTNL 450
|||||:|||||
1DEFICPITRELMKDPVIASDGYSYEREAMESWIHKKKRTSPMTNL 45
451 VLPSAVLTPNRTLKMAINRWLETHQK 476
||| |||||
46 ALPSLVLTPNRTLKMAINRWLETHQK 71

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[illegible]

FIG. 11



Clone
Count

FIG. 12

3	kidney, mw/renal cell CA, 65M, m/KIDNTUT15
3	kidney tumor, clear cell type cancer, pool, SUB, CGAP
2	breast, NF breast disease, 35F
2	brain, frontal, Huntington's, mw/CVA, 57M
2	prostate tumor, adenoCA, 66M, m/PROSNOT15, PROSDIN01
2	lung, mw/spindle cell carcinoid, 62F
2	brain, sensory-motor cortex, aw/CHF, 35M
2	liver/spleen, fetal, 20wM, NORM, CGAP/WM/WN
2	kidney, pool, SUB, 3' CGAP
1	pituitary tumor, adenoma, pool, 3', CGAP
1	prostate, PIN, mw/cancer, M, m/PROSTUP03, 3' CGAP
1	colon, cecum/descending, polyposis, polyp, M/F, pool, NORM
1	esophagus tumor, adenoCA, 61M, NORM
1	ovary tumor, papillary serous CA, 64F, WM/WN
1	bronchial, epithelial cells, 23M, t/20% smoke 20 hr
1	T-B lymphoblast line, leukemia, untreated
1	paraganglion tumor, paraganglioma, aw/renal cell CA, 46M
1	sm intestine, ileum, mw/CUC, 42M
1	brain, hippocampus, AD
1	brain, hippocampus, aw/aortic aneurysm, 45F, 5RP
1	ovary, aw/leiomyomata, 43F
1	bladder tumor, TC CA, 72M
1	breast, mw/ductal adenoCA, aw/node mets, 46F, m/BRSTTUT15
1	gallbladder, cholecystitis, cholelithiasis, 18F
1	prostate, mw/adenoCA, 68M, m/PROSTUT18
1	T- lymphocytes, CD4+, pool, t/CD3 antibodies
1	lung tumor, mets granulosa cell tumor, 80F
1	breast, PF changes, mw/adenoCA, 45F, m/BRSTTUT08
1	CML precursor line, K-562, 53F, t/5AZA 72 hr
1	lung tumor, adenoCA, 47M
1	colon, appendix, aw/leiomyomata, 37F
1	uterus, myometrium, mw/leiomyoma, 41F, NORM, m/UTRSTUT05
1	esophagus tumor, adenoCA, 61M
1	colon tumor, adenoCA, 75M, m/COLNNOT01
1	brain, temporal, mw/neuroepithelial tumor, epilepsy, 45M
1	brain, medulla, aw/CHF, 35M
1	kidney, 49M
1	uterus, endometrium, F, pool
1	paraganglion tumor, paraganglioma, aw/renal cell CA, 46M
1	prostate, AH, mw/adenoCA, node mets, 55M, Ig/N, m/PROSTUT16
1	brain, neurogenic tumor line, SK-N-MC, neuroepithelioma, 14F
1	adrenal tumor, pheochromocytoma, 57F
1	brain, striatum/globus pallidus/putamen, aw/CHF, 81F, RP
1	bone marrow, tibia, aw/mets alveolar rhabdomyoSAR, 16M
1	thyroid, lymphocytic thyroiditis, mw/papillary CA, 30F
1	breast, mw/ductal CA, CA in situ, aw/node mets, 62F
1	liver tumor, mets neuroendocrine CA, 62F, m/ LIVRTMR01
1	umb cord blood, mononuclear cells, t/IL-5
1	uterus tumor, serous papillary CA, F, pooled, 3' CGAP
1	lung, fetal, 19w, NORM, CGAP/WM/WN
1	placenta, neonatal, F, NORM, WM
1	uterus, F, NORM, CGAP/WM/WN
1	pancreas tumor, adenoCA, 3' CGAP
1	brain, infant, 10wF, NORM, WM
1	testis, M, NORM, CGAP/WM
1	liver/spleen, fetal, 20wM, NORM, WM
1	mixed tissues, fetal lung, testis, B-cell, SUB, 3' CGAP/WM

FIG. 13

tgacgagttcatctgccaataaccaggggaacttatgaaggaccccgatcgcatca
gatggctactcctacgagagagaagcaatggagagttggatccacaagaagaagcgca
cgagcccatgacaaaacttggctcttccttcactgggtactgaccccaaacaggactct
gaaaatggccatcaatcgatggctagagacgcatcagaagtgaacctgccacaggca
tcgggtacactgtcagtgatgcccttcagatgattcaaaatgctaagcagccattaca
gaagcaaataaaaaggggaaggacagacgttaaataccagttacttttaaaaactgtaaac
tgtaagcaggtaagtgggtggcgacacctttaatcccagcactcaggaggcagaggca
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aggctacacagagaaacctgtctcaaaaacctaaaagcaaaaaaaaaaaaaaaaaa

FIG. 14

DEFICPITRELMKDPVIASDGYSYEREAMESWIHKKKRTSPMTNLALPSLVLT PNRTL
KMAINRWLETHQK

SECRET

HuRET16 M V K L I H T L A D H G D D V S C C A F S A A L L A T O S L D K T I R L Y S L R D E F V E L P Y S P I
muRET16 M V R L I H T L A D H G D D V S C C A F S A A L L A T O S L D K T I R L Y S L S D E F V E L P Y S P I
rRET16 ~

HuRET16 K F H T Y A V H C C C F S P S C H I L A S C S T D G T T V L W N T E N G Q M L A V M E Q P S G S P V
muRET16 K F H T Y A V H C C C F S P S C H V L A S C S T D G T T V L W S S H S G H T I T V L E Q P G S P V
rRET16 ~

HuRET16 R V C Q F S P D S T C L A S G A A D G T V V L W N A Q S Y K L Y R C G S V K D G S L A A C A F S P N
muRET16 R V C C F S P D S A Y L A S G A A D G S I A L W N A Q T Y K L Y R C G S V K D S S L V A C A F S P D
rRET16 ~

HuRET16 G S F F V T G S S C G D L T V W D D K M R C L H S E K A H D L G I T C C D F S S Q P V S D G E Q G L
muRET16 G G L F V T G S S G G D L T V W D D R M R C L H S E K A H D L G I T C C S F S S Q P L S G G E G L
rRET16 ~

HuRET16 Q F F R L A S C G Q D C Q V K I W I V S F T H I L G F E L K Y K S T L S G H C A P V L A C A F S H D
muRET16 Q S Y Q L A S C G Q D C E I K L W A V T I T R V L G F E L K Y K S T L S G H C A P V L A C A F S H D
rRET16 ~

HuRET16 G Q M L V S G S V D K S V I V Y D T N T E N I L H T L T Q H T R Y V T T C A F A P N T L L A T G S
muRET16 G K M L A S G S V D K S V I H G I G P Q S V L H T L T Q H T R Y V T T C A F A P N T L L A T G S
rRET16 ~

HuRET16 M D K T V N I W Q F D L E T L C Q A R R T E H Q L K Q F T E D W S E E D V S T W L C A Q D L K D L V
muRET16 M D K T V N I W Q F D L E T P C Q A G S M N D P L K H F I E E W S E E D V S V W L R A Q G L E D L V
rRET16 ~

HuRET16 G I F K M N N I D G K E L L N L T K E S L A D D L K I E S L G L R S K V L R K I E E L R T K V K S L
muRET16 G I F R A N N I D G K E L L H L T K E S L A G D L K I E S L G L R S K V L R S I E E L R A K M D S L
rRET16 ~

HuRET16 S S G I P D E F I C P I T R E L M K D P V I A S D G Y S Y E K E A M E N W I S K K R I S P M T N L
muRET16 S S G I P D E F I C P I T R E L M K D P V I A S D G Y S Y E R E A M E S W I H K K R I S P M I N L
rRET16 ~

HuRET16 V L P S A V L T P N R T L K M A I N R W L E T H Q X
muRET16 A L P S V L T P N R T L K M A I N R W L E T H E K
rRET16 A L P S L V L T P N R T L K M A I N R W L E T H Q X

FIG. 16

RET16.1 MVKLIHTLADHGDDVNCCAFSFSLLATCSLDKTI RLYSLRDFTELPHSPL
RET16.2 MVKLIHTLADHGDDVNCCAFSFSLLATCSLDKTI RLYSLRDFTELPHSPL
RET16.3 MVKLIHTLADHGDDVNCCAFSFSLLATCSLDKTI RLYSLRDFTELPHSPL

RET16.1 KFHTYAVHCCCFSPSGHILASCST DGTTVLWNTENGQMLAVMEQPSGSPV
RET16.2 KFHTYAVHCCCFSPSGHILASCST DGTTVLWNTENGQMLAVMEQPSGSPV
RET16.3 KFHTYAVHCCCFSPSGHILASCST DGTTVLWNTENGQMLAVMEQPSGSPV

RET16.1 RVCQFSPDSTCLASGAADGTVVLWNAQSYKLYRCGSVKDGS LAACA FSPN
RET16.2 RVCQFSPDSTCLASGAADGTVVLWNAQSYKLYRCGSVKDGS LAACA FSPN
RET16.3 RVCQFSPDSTCLASGAADGTVVLWNAQSYKLYRCGSVKDGS LAACA FSPN

RET16.1 GSFFVTGSSCGDLTVWDDKMRCLHSEKAHDLGITCCDFSSQPVSDGEQGL
RET16.2 GSFFVTGSSCGDLTVWDDKMRCLHSEKAHDLGITCCDFSSQPVSDGEQGL
RET16.3 GSFFVTGSSCGDLTVWDDKMRCLHSEKAHDLGITCCDFSSQPVSDGEQGL

RET16.1 QFFRLASCQQDCQVKI WIVSFTHI LGFEL KYKSTLSGHCA PVLA CAFSRD
RET16.2 QFFRLASCQQDCQVKI WIVSFTHI L
RET16.3 QFFRLASCQQDCQVKI WIVSFTHI LGFEL KYKSTLSGHCA PVLA CAFSRD

RET16.1 GQMLVSSGV DKS VIVY D.TNTENI LHTLTQHTRYVTTCAFA PNT LLLATGS
RET16.2
RET16.3 GQMLVSSGV DKS VIVY D.TNTENI LHTLTQHTRYVTTCAFA PNT LLLATGS

RET16.1 MDKTVNI WQFDLETLCAARRTEHQLKQFTEDWSEEDVSTWLCAQDLKDLV
RET16.2 AARRTEHQLKQFTEDWSEEDVSTWLCAQDLKDLV
RET16.3 MDKTVNI WQFDLETLCAARRTEHQLKQFTEDWSEEDVSTWLCAQDLKDLV

RET16.1 GIFKMNNI DGKEL LNLTKESLADDLKI
RET16.2 GIFKMNNI DGKEL LNLTKESLADDLKI
RET16.3 GIFKMNNI DGKEL LNLTKESLADDLKI GWSPLAWSCLTAAS TSWAQVILL

RET16.1 ESLGLRSKVL RKI EELRTKV KSLSSGIPDEFICPI TRELMKDPVIAS
RET16.2 ESLGLRSKVL RKI EELRTKV KSLSSGIPDEFICPI TRELMKDPVIAS
RET16.3 PRRQSLGLRSKVL RKI EELRTKV KSLSSGIPDEFICPI TRELMKDPVIAS

RET16.1 DGYSYEKEAMENWISK KRTSPMTNLVLP SAVLT PNRTLK MAINRWLETH
RET16.2 DGYSYEKEAMENWISK KRTSPMTNLVLP SAVLT PNRTLK MAINRWLETH
RET16.3 DGYSYEKEAMENWISK KRTSPMTNLVLP SAVLT PNRTLK MAINRWLETH

RET16.1 QK
RET16.2 QK
RET16.3 QK

100711-0450

FIG. 17

	WD repeat 1																																			
HuRET16.1	M	V	K	L	I	H	T	L	A	D	H	G	D	D	V	N	C	C	A	F	S	F	S	L	L	A	T	C	S	L	D	K	T	I	R	L
MuRET16	M	V	R	L	I	H	T	L	A	D	H	G	D	D	V	S	C	C	A	F	S	A	A	L	L	A	T	C	S	L	D	K	T	I	R	L
	WD repeat 2																																			
HuRET16.1	Y	S	L	R	D	F	T	E	L	P	H	S	P	L	K	F	H	T	Y	A	V	H	C	C	C	F	S	P	S	G	H	I	L	A	S	C
MuRET16	Y	S	L	S	D	F	V	E	L	P	Y	S	P	L	K	F	H	T	Y	A	V	H	C	C	C	F	S	P	S	G	H	V	L	A	S	C
	WD repeat 3																																			
HuRET16.1	S	T	D	G	T	T	V	L	W	N	T	E	N	G	Q	M	L	A	V	M	E	Q	P	S	G	S	P	V	R	V	C	Q	F	S	P	D
MuRET16	S	T	D	G	T	T	V	L	W	S	S	H	S	G	H	T	L	T	V	L	E	Q	P	G	G	S	P	V	R	V	C	C	F	S	P	D
	WD repeat 4																																			
HuRET16.1	S	T	C	L	A	S	G	A	A	D	G	T	V	V	L	W	N	A	Q	S	Y	K	L	Y	R	C	G	S	V	K	D	G	S	L	A	A
MuRET16	S	A	Y	L	A	S	G	A	A	D	G	S	T	A	L	W	N	A	Q	T	Y	K	L	Y	R	C	G	S	V	K	D	S	S	L	V	A
	WD repeat 5																																			
HuRET16.1	C	A	F	S	P	N	G	S	F	F	V	T	G	S	S	C	G	D	L	T	V	W	D	D	K	M	R	C	L	H	S	E	K	A	H	D
MuRET16	C	A	F	S	P	D	G	G	L	F	V	T	G	S	S	G	G	D	L	T	V	W	D	D	R	M	R	C	L	H	S	E	K	A	H	D
	WD repeat 6																																			
HuRET16.1	L	G	I	T	C	C	D	F	S	S	Q	P	V	S	D	G	E	Q	G	L	Q	F	F	R	L	A	S	C	G	Q	D	C	Q	V	K	I
MuRET16	L	G	I	T	C	C	S	F	S	S	Q	P	L	S	E	G	G	E	G	L	Q	S	Y	Q	L	A	S	C	G	Q	D	C	E	I	K	L
	WD repeat 7																																			
HuRET16.1	W	I	V	S	F	T	H	I	L	G	F	E	L	K	Y	K	S	T	L	S	G	H	C	A	P	V	L	A	C	A	F	S	H	D	G	Q
MuRET16	W	A	V	T	I	T	R	V	L	G	F	E	L	K	Y	K	S	T	L	S	G	H	C	A	P	V	L	A	C	A	F	S	H	D	G	K
	WD repeat 8																																			
HuRET16.1	M	L	V	S	G	S	V	D	K	S	V	I	V	Y	D	T	N	T	E	N	I	L	H	T	L	T	Q	H	T	R	Y	V	T	T	C	A
MuRET16	M	L	A	S	G	S	V	D	K	S	V	I	I	H	G	I	G	P	Q	S	V	L	H	T	L	T	Q	H	T	R	Y	V	T	T	C	A
	WD repeat 9																																			
HuRET16.1	F	A	P	N	T	L	L	L	A	T	G	S	M	D	K	T	V	N	I	W	Q	F	D	L	E	T	L	C	Q	A	R	R	T	E	H	Q
MuRET16	F	A	P	N	T	L	L	L	A	T	G	S	M	D	K	T	V	N	I	W	Q	F	D	L	E	T	P	C	Q	A	G	S	M	N	D	P
	WD repeat 10																																			
HuRET16.1	L	K	Q	F	T	E	D	W	S	E	E	D	V	S	T	W	L	C	A	Q	D	L	K	D	L	V	G	I	F	R	A	N	N	I	D	G
MuRET16	L	K	H	F	T	E	E	W	S	E	E	D	V	S	V	W	L	R	A	Q	G	L	E	D	L	V	G	I	F	R	A	N	N	I	D	G
	WD repeat 11																																			
HuRET16.1	K	E	E	L	N	L	T	K	E	S	L	A	D	D	L	K	I	E	S	L	G	L	R	S	K	V	L	R	K	I	E	E	L	R	T	K
MuRET16	K	E	L	L	H	L	T	K	E	S	L	A	G	D	L	K	I	E	S	L	G	L	R	S	K	V	L	R	S	I	E	E	L	R	A	K
	WD repeat 12																																			
HuRET16.1	V	K	S	L	S	S	G	I	P	D	E	F	I	C	P	I	T	R	E	L	M	K	D	P	V	I	A	S	D	G	Y	S	Y	E	K	E
MuRET16	M	D	S	L	S	S	G	I	P	D	E	F	I	C	P	I	T	R	E	L	M	K	D	P	V	I	A	S	D	G	Y	S	Y	E	R	E
	WD repeat 13																																			
HuRET16.1	A	M	E	N	W	I	S	K	K	K	R	T	S	P	M	T	N	L	V	L	P	S	A	V	L	T	P	N	R	T	L	K	M	A	I	N
MuRET16	A	M	E	S	W	I	H	K	K	K	R	T	S	P	M	T	N	L	A	L	P	S	L	V	L	T	P	N	R	T	L	K	M	A	I	N
	WD repeat 14																																			
HuRET16.1	R	W	L	E	T	H	Q	K																												
MuRET16	R	W	L	E	T	H	E	K																												

FIG. 18

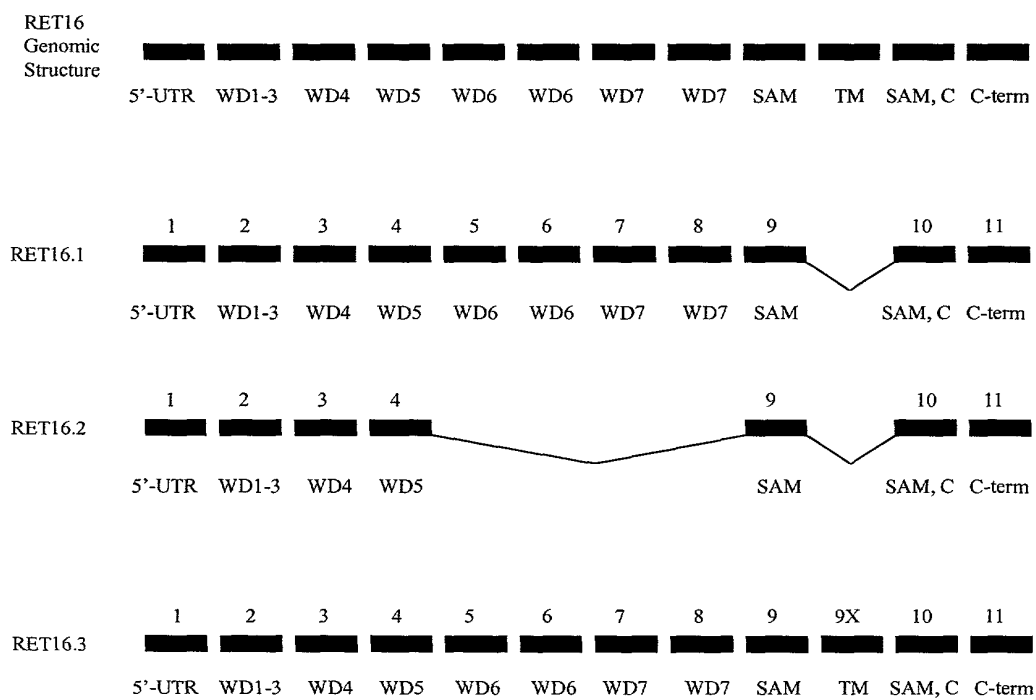


FIG. 19A

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attggatcagcaaaaagaaacgtacaagtcccatgacaaatcttggtcttctccttcagcgg
tacttacaccaaataaggactctgaaaatggccatcaatagatggctggagacacaccaa
agtaaagaattc

FIG. 19B

MVKLIHTLADHGDDVNCCAFSFSLLATCSLDKTIRLYSLRDFTELPHSPLKFHTYAVH
CCCFSPSGHILASCSTDGTTVLWNTENGQMLAVMEQPSGSPVRVCQFSPDSTCLASGA
ADGTVVLWNAQSYKLYRCGSVKDGSAAACAFSPNGSFFVTGSSCGDLTVWDDKMRCLH
SEKAHDLGITCCDFSSQPVSDEQGLQFFRLASCGQDCQVKIIVSFTHILARRTEHQ
LKQFTEDWSEEVVSTWLCAQDLKDLVGIFKMNNIDGKELLNLTKESLADDLKIESLGL
RSKVLRKIEELRTKVKSLSGGIPDEFICPITRELMKDPVIASDGYSYEKEAMENWISK
KKRTSPMTNLVLPASVLT PNRTLKMAINRWLETHQK

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FIG. 20A

gaattcgggctcgaggccggcgccccgccccgcccagcctcacctgcgcgggcacgtgacccgcac
cgcccggtgggcaccttgaaggcggatcccgcgcgcccccgctcctgcaggctgtttttcttc
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gcttcaacctcctgggctcaagtgatcctcctacctcggcctcaatctctaggactgcgtag
taaagtgtgaggaaaattgaagagctcaggaccaagggttaaattccctttcttcaggaattc
ctgatgaatttatatgtccaataactagagaacttatgaaagatccggtcatcgcatcagat
ggctattcatatgaaaaggaagcaatggaaaattggatcagcaaaaagaaacgtacaagtcc
catgacaaatcttggttcttcttcagcgggtacttacaccaaataggactctgaaaatggcca
tcaatagatggctggagacacaccaaagtaaaattggtgatattgtattatttatattttc
agtgatctcatttgaatgatttataggtaaataactaatcagacattattaaaagcaaaacag
gaaaaaggtaaaacttcttaaatttagttacctataaaaattgtcaattttcattctttaaaa
aacacatggacttactataaaagcctttttgtactagtgaaaagaatcttcagctatataga
aataaagttatccttttaaaaaaaaaaaaaaaaaaaaaaaggcgccgc

FIG. 20B

MVKLIHTLADHGDDVNCCAFSFSLLATCSLDKTI RLYSLRDFTELP HSPLKFHTYAV
HCCCFSPSGHILASCSTDGTTVLWNTENGQMLAVMEQPSGSPVRVCQFSPDSTCLAS
GAADGTVVLWNAQSYKLYRCGSVKDGS LAACAFSPNGSFFVTGSSCGDLTVWDDKMR
CLHSEKAHDLGITCCDFSSQPVSDGEQGLQFFRLASCGQDCQVKIWIVSFTHILGFE
LKYKSTLSGHCAPVLACAFSHDGQMLVSGSVDKSVIVYDTNTENILHTLTQHTRYVT
TCAFAPNTLLLATGSMDKTVNIWQFDLETLCQARRTEHQLKQFTEDWSEEDVSTWLC
AQDLKDLVGIFKMNNIDGKELLNLTKE SLADDLKIGWSPLAWSCLTAASTSWAQVIL
LPRPQSLGLRSKVL RKIEELRTKV KSLSSGIPDEFICPITRELMKDPVIASDGYSYE
KEAMENWISKKRTSPMTNLVLP SAVLTPNRTLKMAINRWLETHQK

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